

SUMMARY OF TEMPERATURE AND PRECIPITATION BY SECTIONS, AUGUST, 1904.

In the following table are given, for the various sections of the Climate and Crop Service of the Weather Bureau, the average temperature and rainfall, the stations reporting the highest and lowest temperatures with dates of occurrence, the stations reporting greatest and least monthly precipitation, and other data, as indicated by the several headings.

The mean temperatures for each section, the highest and

lowest temperatures, the average precipitation, and the greatest and least monthly amounts are found by using all trustworthy records available.

The mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. Of course the number of such records is smaller than the total number of stations.

| Section. | Temperature—in degrees Fahrenheit. | | | | | | | | Precipitation—in inches and hundredths. | | | | | | | |
|--------------------------------------|------------------------------------|----------------------------|---|----------|--------|---|------------------|----------------------------|---|-------------------|------------------------|------|----------------|----------|---------|--|
| | Section average. | Departure from the normal. | Monthly extremes. | | | | Section average. | Departure from the normal. | Greatest monthly. | | | | Least monthly. | Station. | Amount. | |
| | | | Station. | Highest. | Date. | Station. | | | Station. | Amount. | | | | | | |
| Alabama..... | 78.4 | -1.2 | Newbern..... | 101 | 24 | (Maple Grove, River-ton, Valley head, Anniston..... | 55 | 27 | Goodwater..... | 13.17 | Florence..... | 1.38 | | | | |
| Arizona..... | 79.7 | -0.3 | Fort Mohave..... | 118 | 5 | (Flagstaff..... | 55 | 28 | Huachuca Reservoir..... | 9.00 | Fort Mohave..... | 0.38 | | | | |
| Arkansas..... | 78.1 | -1.1 | Newport..... | 105 | 25 | (Fort Defiance..... | 46 | 30 | Helena, No. 2..... | 6.40 | Osceola..... | 0.33 | | | | |
| California..... | 73.9 | +0.2 | Mammoth Tank..... | 114 | 67 | Oregon..... | 46 | 27 | Laguna Valley..... | 6.95 | 42 stations..... | 0.00 | | | | |
| Colorado..... | 63.7 | -1.5 | Volcano Springs..... | 114 | 109 | Bodie..... | 24 | 30 | Longs Peak (near)..... | 6.50 | Las Animas..... | 0.00 | | | | |
| Florida..... | 80.1 | -1.1 | Blaine..... | 103 | 29 | Halls Gulch..... | 21 | 22 | Summer..... | 17.46 | Malabar..... | 2.53 | | | | |
| Georgia..... | 77.6 | -1.4 | Clemont..... | 101 | 19 | Monticello..... | 61 | 5.6 | Albany..... | 14.33 | St. Marys..... | 2.34 | | | | |
| Idaho..... | 67.8 | -1.4 | Westpoint..... | 101 | 23 | Diamond..... | 54 | 28 | Chesterfield..... | 1.78 | Garnet..... | T. | | | | |
| Illinois..... | 70.7 | -3.0 | Garnet..... | 110 | 15 | Chesterfield..... | 21 | 22 | Aledo..... | 7.58 | Olney..... | 1.76 | | | | |
| Indiana..... | 71.1 | -2.1 | Equality..... | 98 | 14, 25 | Lanark..... | 37 | 8 | (Auburn, Syracuse, Auburn, Syracuse, Topeka, Ft. Wayne, Bluffton, Northfield..... | 6.79 | Cambridge City..... | 0.87 | | | | |
| Iowa..... | 69.1 | -2.7 | Rome..... | 101 | 14 | Earlham..... | 35 | 8 | Bluffton, Northfield..... | 42 | Sibley..... | 0.66 | | | | |
| Kansas..... | 74.6 | -2.6 | Mount Ayr, Wauke..... | 97 | 13 | Hanover..... | 38 | 26 | Earlham..... | 3.43 | Chapman..... | 1.06 | | | | |
| Kentucky..... | 75.2 | -0.9 | Jetmore..... | 104 | 28 | Beaverdam..... | 45 | 27 | Hanover..... | 0.00 | Scott..... | 0.59 | | | | |
| Louisiana..... | 80.2 | -1.2 | Ness City..... | 104 | 13 | Plain Dealing..... | 53 | 28 | Mount Sterling..... | 5.52 | Caspiana..... | 1.66 | | | | |
| Maryland and Delaware..... | 71.9 | -1.9 | Cadiz..... | 100 | 14 | Deer Park, Md..... | 31 | 27, 31 | Port Eads..... | 13.31 | Jewell, Md..... | 0.69 | | | | |
| Michigan..... | 63.5 | -2.5 | Libertyhill..... | 102 | 24 | Oakland, Md..... | 31 | 27 | Darlington, Md..... | 8.74 | Lapeer..... | 1.05 | | | | |
| Minnesota..... | 64.9 | -2.5 | Boettcherville, Md..... | 97 | 1 | Wetmore..... | 25 | 10 | Wetmore..... | 2.81 | Moorhead..... | 0.96 | | | | |
| Mississippi..... | 79.4 | -0.8 | Hancock, Md..... | 97 | 25 | Omer..... | 25 | 30 | Petosky..... | 7.95 | Indianola..... | 0.65 | | | | |
| Missouri..... | 73.7 | -2.2 | Springbrook..... | 111 | 10 | Pokagon Falls..... | 27 | 29 | St. Cloud..... | 6.00 | Doniphon..... | 1.98 | | | | |
| Montana..... | 65.1 | -0.2 | Kirkwood..... | 104 | 14 | Austin, Hernando..... | 56 | 27 | Pecan, (Swartwout)..... | 14.18 | Lamedeer..... | T. | | | | |
| Nebraska..... | 70.9 | -1.7 | Sodaville..... | 105 | 7 | Monroe City..... | 43 | 23 | Maryville..... | 9.51 | Gering..... | 0.54 | | | | |
| Nevada..... | 68.6 | -1.2 | Nashua, N. H..... | 93 | 1 | Grayling..... | 17 | 22 | Columbia Falls..... | 1.82 | 2 stations..... | 0.00 | | | | |
| New England*..... | 65.3 | -2.5 | Indian Mills, Bridge-ton, Vineland..... | 92 | 1 | (Brokenbow, Hay Springs, Kennedy..... | 56 | 22 | Grand Island..... | 6.83 | Cornwall, Vt..... | 1.95 | | | | |
| New Jersey..... | 70.8 | -1.7 | Alamogordo, San Marcial..... | 103 | 1 | 22 | 28 | Palmetto..... | 6.95 | College Farm..... | 13.01 | | | | | |
| New Mexico..... | 70.6 | -0.9 | Berlin, Chatham..... | 94 | 1 | Tecoma..... | 22 | 21 | Norwalk, Conn..... | 8.45 | Cape May..... | 2.65 | | | | |
| New York..... | 65.6 | -1.5 | Selma..... | 100 | 21 | Vanceboro, Me..... | 30 | 30 | 2 stations..... | 0.00 | Fruitland..... | 0.06 | | | | |
| North Carolina..... | 75.1 | -1.0 | Dickinson..... | 102 | 2 | Layton..... | 37 | 27 | 2 stations..... | 0.00 | Otto..... | 1.63 | | | | |
| North Dakota..... | 63.3 | -2.0 | Camp Dennison..... | 97 | 25 | Charlotteburg..... | 37 | 24 | Lewisburg..... | 3.00 | Melville..... | 0.29 | | | | |
| Ohio..... | 68.8 | -2.8 | Hobart, Okla..... | 107 | 29 | Winsors..... | 39 | 12 | Oberlin..... | 5.37 | Cincinnati..... | 0.41 | | | | |
| Oklahoma and Indian Territories..... | 79.0 | -2.2 | Blalock..... | 110 | 5 | Indian Lake..... | 28 | 30 | Fort Wingate..... | 5.65 | Goodwater, Ind. T..... | 0.50 | | | | |
| Oregon..... | 67.3 | +1.5 | Lock Haven..... | 96 | 1 | Linville..... | 40 | 28 | Oyster Bay..... | 10.60 | Fruitland..... | 0.06 | | | | |
| Pennsylvania..... | 68.0 | -1.8 | Cayey..... | 98 | 23 | McKinney..... | 31 | 2 | Monroe..... | 11.89 | Otto..... | 1.63 | | | | |
| Porto Rico..... | 79.1 | -1.7 | Sumter..... | 102 | 22 | Green Hill, Orange-ville..... | 38 | 27 | Cando..... | 5.37 | Lewisburg..... | 3.00 | | | | |
| South Carolina..... | 77.6 | -1.7 | Herried..... | 105 | 3 | Fairland, Vinita, Ind. T., Grand, Okla..... | 52 | 27 | Oberlin..... | 5.57 | Melville..... | 0.29 | | | | |
| South Dakota..... | 68.8 | -1.6 | Dover, Lewisburg, Pope..... | 101 | 25, 31 | Pine..... | 29 | 22 | Whiteagle, Okla..... | 7.58 | Cincinnati..... | 0.41 | | | | |
| Tennessee..... | 76.0 | 0.0 | Brownwood..... | 109 | 29 | Riverside..... | 29 | 20 | Warmspring..... | 1.95 | Goodwater, Ind. T..... | 0.50 | | | | |
| Texas..... | 81.0 | -1.2 | (St. George..... | 104 | 5, 6 | Trampian, Pocono Lake..... | 34 | 27 | Easton..... | 9.64 | 13 stations..... | 0.00 | | | | |
| Utah..... | 69.4 | -0.9 | Rockville..... | 104 | 6 | Adjuntas..... | 54 | 30 | Cidra..... | 20.01 | Everett..... | 1.66 | | | | |
| Virginia..... | 72.8 | -1.6 | Hite..... | 104 | 14 | Cheraw, Greenville..... | 54 | 28 | Effingham..... | 13.43 | Coamo..... | 0.94 | | | | |
| Washington..... | 66.2 | -0.2 | Stephens City..... | 96 | 22 | Ramsey..... | 30 | 22 | Tyndall..... | 5.37 | Aiken..... | 3.92 | | | | |
| West Virginia..... | 70.7 | -1.3 | Kennewick..... | 112 | 5 | Dickson..... | 47 | 27 | Grace..... | 7.50 | Oelrichs..... | T. | | | | |
| Wisconsin..... | 64.6 | -3.2 | Martinsburg..... | 95 | 12 | (Texarkana..... | 52 | 29 | Lebanon..... | 1.04 | Lusk..... | 0.05 | | | | |
| Wyoming..... | 68.0 | -0.6 | Moorefield..... | 95 | 25 | Burkes Garden, McDowell..... | 52 | 30 | 2 stations..... | 0.00 | Stephens City..... | 0.53 | | | | |
| | | | Prairie du Chien..... | 95 | 12 | Cle-Eum..... | 38 | 28 | Hearne..... | 6.36 | 2 stations..... | 0.00 | | | | |
| | | | Fort Laramie..... | 100 | 14 | Cusick, Northport..... | 30 | 24 | Soldier Summit..... | 3.91 | Cuba..... | 0.67 | | | | |
| | | | | | | Bayard..... | 32 | 27 | Callaville..... | 9.27 | Stephens City..... | 0.53 | | | | |
| | | | | | | Agr. Exp. Station (near Grand Rapids)..... | 26 | 8 | Coupeville..... | 1.13 | 6 stations..... | 0.00 | | | | |
| | | | | | | Daniel..... | 17 | 22 | Beverly..... | 6.71 | Cuba..... | 0.67 | | | | |
| | | | | | | | | | Butternut..... | 6.56 | Menasha..... | 0.59 | | | | |
| | | | | | | | | | Phillips..... | 3.11 | Lusk..... | 0.05 | | | | |

* Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, and Connecticut.

SPECIAL ARTICLES.

LOCAL STORM AT ST. LOUIS, MO., AUGUST 19, 1904.

By L. H. DANGERFIELD, Observer Weather Bureau.

General conditions.—A well-defined storm area was central over northeastern Kansas and southeastern Nebraska on the morning of August 19, the lowest pressure being 29.70 inches at Concordia, Kans., and Omaha, Nebr. An almost ideal cyclonic circulation was evident around the center of the low area, and rain was falling from Iowa and Missouri eastward to

Ohio. St. Louis, in the southeastern quadrant of the depression, was favorably located for the visit of severe local storms. By 8 p. m. the storm center had moved eastward to southeastern Iowa, where the pressure had fallen to 29.60 inches, and by 8 a. m., August 20, the center of the disturbance was over the lower Lakes, the lowest pressure being 29.58 inches at Buffalo, N. Y., showing a constant increase in movement and intensity.